

Substitute for form 1449A/PTO

(Use as many sheets as necessary)

Sheet	1	of	5
-------	---	----	---

Application Number	09/502,133-Conf. #4787
Filing Date	February 11, 2000
First Named Inventor	Harold E. HELSON
Art Unit	2128
Examiner Name	H. M. Jones
Attorney Docket Number	0103544.00131US2

[illegible][illegible]

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

US1DOCS 6870968v1

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Application Number	09/502,133-Conf. #4787
				Filing Date	February 11, 2000
				First Named Inventor	Harold E. HELSON
				Art Unit	2128
				Examiner Name	H. M. Jones
Sheet	2	of	5	Attorney Docket Number	0103544.00131US2

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	CA	BALASUBRAMANIAN, K.J., "Computer Perception of Molecular Symmetry", <i>J. Chem. Inf. Comput. Sci.</i> , Vol. 35, pp. 761-770, 1995	
	CB	BALDUCCI, R. et al., "Efficient Exact Solution of the Ring Perception Problem", <i>J. Chem. Inf. Comput. Sci.</i> , Vol. 34, pp. 822-831, 1994	
	CC	BAUER, J. et al., "IGOR and RAIN - The First Mathematically Based Multi-Purpose Problem-Solving Computer Programs for Chemistry and Their Use as Generators of Constitutional Formulas", <i>Informal Commun. Math. Chem. (MATCH)</i> , No. 27, pp. 31-47, 1992	
	CD	BAYADA, D.M. et al., "An Algorithm for the Multiple Common Subgraph Problem", <i>J. Chem. Inf. Comput. Sci.</i> , Vol. 32, pp. 680-685, 1992	
	CE	BENECKE, C. et al., "MOLGEN, a generator of connectivity isomers and stereoisomers for molecular structure elucidation", <i>Anal. Chim. Acta</i> , Vol. 314, pp. 141-147, 1995	
	CF	BERTRAND, A. et al., "DESMOL: a Subroutine for the Generation of Molecular Structures with Stereochemical Information from Connectivity Data", <i>J. Chem. Res. (S)</i> , p. 158, 1994	
	CG	BLEY, K. et al., "Constitutional Formulae generated from Connectivity Information: the Program MDRAW", <i>J. Chem. Res. (S)</i> , p. 261 1991	
	CH	CARHART, R.E., "A Model-Based Approach to the Teletype Printing of Chemical Structures", <i>J. Chem. Inf. Comput. Sci.</i> , Vol. 16, No. 2, pp. 82-88, 1976	
	CI	ChemDraw Chemical Structure Drawing Standard, <i>User's Guide</i> , CS Chem3D 4.0 for Windows and Macintosh, CambridgeSoft Corporation, 1986-1997	
	CJ	DALBY, J. et al., "Description of Several Chemical Structure File Formats Used by Computer Programs Developed at Molecular Design Limited", <i>J. Chem. Inf. Comput. Sci.</i> , Vol. 32, pp. 244-255, 1992	

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Application Number	09/502,133-Conf. #4787
				Filing Date	February 11, 2000
				First Named Inventor	Harold E. HELSON
				Art Unit	2128
				Examiner Name	H. M. Jones
Sheet	3	of	5	Attorney Docket Number	0103544.00131US2

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	CK	DITTMAR, P.G. et al., "An Algorithmic Computer Graphics Program for Generating Chemical Structure Diagrams", <i>J. Chem. Inf. Comput. Sci.</i> , Vol. 17, No. 3, pp. 186-192, 1977	
	CL	DOWNS, G.M. et al., "Review of Ring Perception Algorithms for Chemical Graphs", <i>J. Chem. Inf. Comput. Sci.</i> , Vol. 29, pp. 172-187, 1989	
	CM	FIGUERAS, J. et al., "Automorphism and Equivalence Classes", <i>J. Chem. Inf. Comput. Sci.</i> , Vol. 32, pp. 153-157, 1992	
	CN	FIGUERAS, J., "Ring Perception Using Breadth-First Search", <i>J. Chem. Inf. Comput. Sci.</i> , Vol. 36, p. 986-991, 1996	
	CO	FREREJACQUE, M., "No. 108 - Condensation d'une molecule organique", <i>Bull. Soc. Chim. Fr., (Memoires)</i> , Vol. 5, pp. 1008-1011, 1939	
	CP	GOTHE, S.A. et al., "Computer-Assisted Mechanistic Evaluation of Organic Reactions. 22. The Generation and Use of Three-Dimensional Structures", <i>J. Org. Chem.</i> , Vol. 58, pp. 5081-5094, 1993	
	CQ	HELSON, "Structure Diagram Generation", <i>Reviews in Computational Chemistry</i> , Vol. 13, Ch. 6, pp. 313-398, 1999	
	CR	JUDSON, R., "Genetic Algorithms and Their Use in Chemistry", <i>Reviews of Computational Chemistry</i> , Ch. 1, Vol. 10, pp. 1-73, 1997	
	CS	LIETH, C.v.d. et al., "RINGS - a general program to build ring systems", <i>J. Mol. Graphics</i> , Vol. 2, pp. 117-123, 1984	
	CT	MOLCHANOVA, M.S. et al., "Computer Generation of Molecular Structures by the SMOG Program", <i>J. Chem. Inf. Comput. Sci.</i> , Vol. 36, pp. 888-899, 1996	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	09/502,133-Conf. #4787
				Filing Date	February 11, 2000
				First Named Inventor	Harold E. HELSON
				Art Unit	2128
				Examiner Name	H. M. Jones
Sheet	4	of	5	Attorney Docket Number	0103544.00131US2

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	CU	RAYNER, J.D. et al., "A Concise Connection Table Based on Systematic Nomenclatural Terms", <i>J. Mol. Graphics</i> , Vol. 1, pp. 108-111, 1983	
	CV	RUSINKO, A. et al., "Using CONCORD to Construct a Large Database of Three-Dimensional Coordinates from Connection Tables", <i>J. Chem. Inf. Comput. Sci.</i> , Vol. 29, p. 251-255, 1989	
	CW	SADOWSKI, J. et al., "Comparison of Automatic Three-Dimensional Model Builders Using 639 X-ray Structures", <i>J. Chem. Inf. Comput. Sci.</i> , Vol. 34, p. 1000-1008, 1995	
	CX	SHELLEY, C.A., "Heuristic Approach for Displaying Chemical Structures", <i>J. Chem. Inf. Comput. Sci.</i> , Vol. 23, pp. 61-65, 1983	
	CY	SHMUELI, U., "Simple and efficient approach to preparation of molecular drawings", <i>J. Mol. Graphics</i> , Vol. 2, pp. 111-112, 1984	
	CZ	THOMSON, L.G. et al., "Organic Search and Display Using a Connectivity Matrix Derived from Wiswesser Notation", <i>J. Chem. Doc.</i> , Vol. 7, pp. 204-209, November 1967	
	CA1	WEININGER, D., "SMILES, a Chemical Language and Information System. 1. Introduction to Methodology and Encoding Rules", <i>J. Chem. Inf. Comput. Sci.</i> , Vol. 28, pp. 31-36, 1988	
	CB1	WEININGER, D., "Smiles. 3. Depict. Graphical Depiction of Chemical Structures", <i>J. Chem. Inf. Comput. Sci.</i> , Vol. 30, pp. 237-243, 1990	
	CC1	WIPKE, T., "AIMB: Analogy and Intelligence in Model Building. System Description and Performance Characteristics", <i>Computer Representation and Manipulation of Chemical Information</i> , pp. 147-174, Wipke et al. editors, Krieger, NY, 1981	
	CD1	WIPKE, W. T. et al., "Computer-Assisted Three-Dimensional Synthetic Analysis", <i>Tet. Comput. Method.</i> , Vol. 1, pp. 147-174, 1988	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	09/502,133-Conf. #4787
				Filing Date	February 11, 2000
				First Named Inventor	Harold E. HELSON
				Art Unit	2128
				Examiner Name	H. M. Jones
Sheet	5	of	5	Attorney Docket Number	0103544.00131US2

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	CE1	ZIMMERMAN, B.L., Thesis, University of Pennsylvania, 1971	
	CF1	ZIPPLE, M. et al., "Spektren - A Computer System for the Identification and Structure Elucidation of Organic Compounds", <i>Anal. Chim Acta</i> , Vol. 140, pp. 123-142, 1982	

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.